



Zinc Die Casting Alloys

EZAC

High Strength, Creep resistant Alloy

EZAC® is the Zinc die casting industry's strongest, hardest and most Creep Resistant Alloy. This combination of improved strength, hardness, creep resistance and exceptional fluidity offers die casters and their customers a unique opportunity to break into new markets and improve upon the performance of current products.

Summary of Benefits:

- Strongest and hardest Zinc die casting alloy - 2.5X Stronger than standard aluminum die casting alloys
- The most creep resistant Zinc die casting alloy
- Hot Chamber Alloy.
- Increased Fluidity
- Perfect for thin wall or complex shaped applications.
- Potential replacement alloy for sintered iron components, steel stampings, aluminum die castings, etc.

Properties:

Mechanical Properties:

Ultimate Tensile Strength: ksi (MPa)	60 (416)
Yield Strength: ksi (MPa)	57 (396)
Elongation: % in 2"	1
Hardness: Brinell	120
Modulus of Elasticity: psi x 10 ⁶	16.2

Physical Properties:

Density: lb/cu in (g/cc)	0.234 (6.477)
Melting Range: deg F (deg C)	715-775 (379-413)
Electrical Conductivity: %IACS	26-29 (estimated)
Thermal Conductivity: BTU/ft/hr/deg F	60-67 (estimated)
Coefficient of Thermal Expansion: $\mu\text{in/in/F}$ – 68-212 deg F	13-15 (estimated)
Specific Heat: BTU/lb/deg F	0.10 (estimated)
Pattern or Die Shrinkage: in/in	0.0075

Note: The above properties are published "typical" values tested on net shaped die cast test bars. The information found in these tables should be used for initial reference and for comparative purposes only. This data should not be used to establish design limits or as a reason for quality acceptance or rejection.

Chemical Analysis of EZAC®:

EZAC® is a zinc-based alloy with specific additions of copper and aluminum. It is this proprietary and unique combination of copper, aluminum and zinc that give this alloy its improved strength, hardness and creep performance. A certificate of conformance is available upon request.



Bundle Color Code: